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Simultaneous densitometric determination of eight food colors and four sweeteners in candies, jellies, beverages and pharmaceuticals by normal-phase high performance thin-layer chromatography using a single elution protocol

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*Highlights of the work*

- Determination of 8 food colors and 4 sweeteners in foodstuffs and pharmaceuticals
- Single elution protocol for complete resolution of all 12 additives by NP-HPTLC
- Measurement of uncertainty was evaluated to prove the method reliability
- Method was applied to analyze candies, jellies, beverages and pharmaceuticals

**Abstract**

The present work describes a novel application of high performance thin-layer chromatography for the separation and quantification of eight food colors (amaranth, allura red, erythrosine, fast green, indigo carmine, quinoline yellow, sunset yellow and tartrazine) and four intense sweeteners

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